

VIBRANCE

April-June 2019, Vol. 12, Issue 2

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Quarterly E-Newsletter of Dept. of I.T, I.T.S, Mohan Nagar, Ghaziabad

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FaceApp was started in year 2017, but it's the subject of renewed popularity this week with the now-viral FaceApp old age filter. Celebrities from all fields including Hollywood, Bollywood, sports and many more are posting their aged faces online using the #faceappchallenge tag, and regular folks are doing it, too. And therein lies the problem. People are doing it from home, some are doing it from work, and some are doing it from company-owned devices.

Stan Lowe, Zscaler global CISO, said, "companies should be concerned about users downloading these types of apps, mainly because they have not been examined for undocumented features and they may occasionally be utilizing the devices for activities that are not readily apparent such as bitcoin mining. Any app that asks you to provide any data, biometric or otherwise, is going to use it for some reason. Companies and individuals should guard their privacy and data in all forms, including biometrics. We were all told not to tell strangers where we live, this holds true in an age where apps are collecting all kinds of data. Your privacy and data are valuable. As the old saying goes, beware of strangers bearing gifts."



The app, which was created by the Russian-owned FaceApp, uses artificial intelligence to morph faces and make them look older, or younger, whatever the user requests. Some of the security concerns are how and where the facial images are stored.

FaceApp CEO Yaroslav Goncharov said that "FaceApp performs most of the photo processing in the cloud. We only upload a photo selected by a user for editing. We never transfer any other images from the phone to the cloud. We might store an uploaded photo in the cloud. The main reason for that is performance and traffic: we want to make sure that the user doesn't upload the photo repeatedly for every edit operation.

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Most images are deleted from our servers within 48 hours from the upload date."

Security experts warn that companies need to be careful with FaceApp and similar apps.

Any organization that plans to rely on biometrics for security is going to need to rethink their strategy. Since a biometric cannot be 'reset', the best approach is to enforce strong cybersecurity policies that address potential vulnerabilities such as passwords," said Craig Lurey, CTO and Co-Founder of Keeper Security.







Any mobile app is a potential privacy issue regardless of its use of artificial intelligence or biometric data. Applying artificial intelligence and biometric data to authentication use cases can also make an app MORE secure and do a better job of protecting a user's privacy in ways that are much better than a simple username and static passwords.

Pankaj Srivastava, COO of privacy-first company FigLeaf said it's definitely a risk to use apps such as FaceApp. "Clever companies are finding new and different ways to couch data collection in 'fun' or viral-sharing' experiences. It may seem fun to manipulate your photos but what you're really doing is giving way your entire photo album to a company with no traceable address, location or history. Oddly, users don't have to opt-in to use the app which seems a violation of the European Union's GDPR laws."



He also said that "If consumers are going to own privacy or take back control of privacy they are going to have to start reading the fine print, like FaceApp's terms and conditions". That is something individuals have to own and this is a part of online privacy that they should be responsible for.

We should be cautious while downloading any app and sharing our data on the net.

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Education and Technology- A Million year Journey

Educational scenario is changing day by day, with increase and development of technology new way of learning and promoting education are also increasing. Technology is nowadays becoming the smartest and a vital resource of education. It provides the facility of ease of learning, effective education and also sometimes generates the interest of students towards understanding and also developing a curiosity to learn and discover something new and more.

Time of Horn Books and Magic lantern

Previously in ancient times the nomads used to write and carve on big rocks

- Colonial years was the period of "HORN BOOKS", in which lessons were printed on wooden paddles
- In 1870 came "MAGIC LANTERN" that worked as projectors
- After first world war "chalk boards" often known as "BLACK BOARD" came into existence
- 1900 was the era of pencil .Pencil has made a special place in education technologies and is used till date

I. From on-air classes to ball point Pen

- In year 1920, radios emerged with the concept of on-air classes as medium of education
- In year 1930, the magic lantern was transformed to projectors
- Further research lead to the invention of ball point pens in year 1940
- More excitement was created among learners in year 1951 when video tapes found its place in educational field

II. COMPUTERS CHANGED THE COMPLETE SYSTEM

Computers had a great impact on education .Computers nowadays are a big pillar in building up the bridge of education and development.

- Access to internet: Computers provide access to internet and world wide web that helps student and teachers to have access to the pool of knowledge and information and find out the required content
- Online classes: Online classes are in trend now a day. Where students can interact with online tutors by messages, emails or video chat.
- **Easy understanding:** Use of power point presentation makes it easy for students to understand a particular topic as slides contains important points only.
- **Smart classes:** Smart classes as the name depicts uses the smartest way of teaching with the help of 3D or animated pictures and videos
- **E-books**: Text books nowadays are at the danger of extinction, e-books and pdf are now a days taking place of textbooks

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III. CHALLANGES TO EDUCATIONAL TECHNOLOGIES

Although technology is playing a vital role in enhancing educational quality of the country but still there are a lot of challenges and problems in accepting these technologies some of the basic problems of educational technologies are as below:

- LIMITED BUDGET: Implementing technologies such as smart classes initially requires a handsome amount of money to get the set up ready. In such case making classrooms digital is quite difficult and seems next to impossible due to monetary issues.
- **UNSKILLED STAFF**: Staff should be skilled and trained enough so that he /she efficient manner and get best out of it.
- **DIFICULTY OF CHOICE**: Sometimes a question arises ,there is a problem of choice. problem to choose correct tools , application and choosing proper space to set up the application
- FALIURES TO ACCEPT CHANGES: It is a core nature of human beings the we are not ready to break the legacy ,set up new standards of living and accept the changes. Similar case in the fields of education, teachers may resist to accept new technologies as they are more familiar with blackboard technique.

IV.FUTURE SCOPE OF EDUCATION TECHNOLOGY

Looking at the records of last years and taking into consideration the continuity in invention and development in technology we can expect a lot more technologies in future that will totally change and revert the educational scenario.

- **Digital notebooks:** Although we live in the era where each student owns a pc, laptop but a time may come in future when these items will replace notebooks
- **3D PRINTERS:** 3D printers provides opportunity to the user to know, feel and touch the desired item. This technology will completely transform the educational scenario as student can really see, touch and feel the items or topics instead of just looking at its printed image in text book
- **BIOMETRICS**: It is responsibility of a tutor to educate and guide the students and he needs to main students record for this, Starting from attendance to test grades a teacher needs to maintain record of each and every student and it's a human nature to make mistakes

This was a small story of relation between Education and Technology.



KARAN PANDEY MCA 3rd Year

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Virtual Reality

Virtual reality (VR) is a technology which allows a user to interact with a computersimulated environment, be it a real or imagined one.

Most current virtual reality environments are primarily visual experiences, displayed either on a computer screen or through special stereoscopic displays, but some simulations include additional sensory information, such as sound through speakers or headphones.

Some advanced, haptic systems now include tactile information, generally known as force feedback, in medical and gaming applications.

Users can interact with a virtual environment or a virtual artifact (VA) either through the use of standard input devices such as a keyboard and mouse, or through multimodal devices such as a wired glove, the Polhemus boom arm, and omnidirectional treadmill.

The simulated environment can be similar to the real world, for example, simulations for pilot or combat training, or it can differ significantly from reality, as in VR games.

The oldest application of virtual reality is on pilot training. Before any new pilot is allowed to fly a real plane, he has to be tested on simulation first. He can only fly a real plane if he passes the simulation test. This is why every aviation school has its VR app development company.

The simulation is designed in such a way that it looks so real and a student will feel like he is flying a real plane. As mentioned earlier, it is one of the oldest applications of virtual application. Virtual reality is a challenging research topic for all the Computer Professionals nowadays.



MAYANK GOYAL MCA-3rd Year VIBRANCE Vol.12, Issue 2



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Women Empowerment: Winds of Change

Women empowerment has become the buzzword today with women working alongside men in all spheres. They profess an independent outlook, whether they are living inside their home or working outside. They are increasingly gaining control over their lives and taking their own decisions with regard to their education, career, profession and lifestyle.

With steady increase in the number of working women, they have gained financial independence, which has given them confidence to lead their own lives and build their own identity. They are successfully taking up diverse professions to prove that they are second to none in any respect.

But while doing so, women also take care to strike a balance between their commitment to their profession as well as their home and family. They are playing multiple roles of a mother, daughter, sister, wife and a working professional with remarkable harmony and ease. With equal opportunities to work, they are functioning with a spirit of team work to render all possible co-operation to their male counterparts in meeting the deadlines and targets set in their respective professions. Women empowerment is not limited to urban, working women but women in even remote towns and villages are now increasingly making their voices heard loud and clear in society. They are no longer willing to play a second fiddle to their male counterparts. Educated or not, they are asserting their social and political rights and making their presence felt, regardless of their socio-economic backgrounds.

While it is true that women, by and large, do not face discrimination in society today, unfortunately, many of them face exploitation and harassment which can be of diverse types: emotional, physical, mental and sexual. They are often subjected to rape, abuse and other forms of physical and intellectual violence. Women empowerment, in the true sense, will be achieved only when there is attitudinal change in society with regard to womenfolk, treating them with proper respect, dignity, fairness and equality. The rural areas of the country are, by and large, steeped in a feudal and medieval outlook, refusing to grant women equal say in the matters of their education, marriage, dress-code, profession and social interactions. Let us hope, women empowerment spreads to progressive as well as backward areas of our country.

Tanya Garg MCA-3rd Year

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Social Media - Not So Social

One of the most important and significant part of 21st century is the rapid change in Information & Technology with the key development being the emergence of social media. The pace of change is accelerating. For example the development of mobile tech has played an important role in shaping the impact of social media. Across the globe, mobile devices dominate in terms of total minutes spent online and its major portion is spent across various social media platform.

On initial look it seems that increase usage of social media has helped in connecting the society bringing the worlds closer but in reality social media has been blamed for promoting some social ills. Cyberbullying is one of the major problems caused by social media. Teenagers have a need to fit in, to be popular and to outdo others. The process was challenge long ago before the advent of social media.

After the introduction of facebook, twitter, instagram into the mix and suddenly teenagers are being subjected under immense pressure to grow up too fast in online world. According to Michael Hamm a researcher of University of Alberta, 23% of teen have been targeted and 15% admitted of bullying someone. People can misuse social media platforms to spread rumors, share videos aimed at destroying reputation and to blackmail others.

Other major concerns regarding social media is of lack of privacy. Stalking ,identity theft, personal attacks and misuse of information are some of the threats faced by the users of social media. Most of the time ,the users themselves are to be blame as the end up sharing content that should not be in the public eye.

The confusion arises from a lack of understanding of how the private and public elements of online profile actually works. Unfortunately, by the time private content is deleted its usually too late and can cause problems in people's personal and professional lives.

Social media has impact on personal relationships as well. One of the major effect of social media is encouraging people to form and cherish artificial bonds over actual relationships.

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Student Participation in External Events.... Page-15 The term friend as used on social media lacks the intimacy present in conventional and "actual" friendships, where people actually know each other, talk with each other, have an intimate bond and frequently interacted face to face.

The bottom line is that while social media has resulted in people becoming closer over the internet but in some way they are more distant to each other. Certain measures should be taken to ensure social media do not create any negative impact.

One of the measures can be to use the technology like machine learning (A.I.) to inhibiting user to post comment if it is found to be offensive and repetitive abusive account should be cyberbullying as a criminal offence will also reduce the hatred on social media platforms. Also teenagers should be educated to properly use social media to be cautious before posting and sharing anything.



AAKASH KUMAR MCA-3rd Year



Happening @ Department of 7.7 during April — June, 2019

PARAMARSH-II-2019 a career counselling session for BCA Students





The second session of PARAMARSH-II-2019 a career counselling session was organized on Saturday, 06th April, 2019. The objective of this session was an interaction amongst students of BCA final year of ITS-UG Campus and the MCA alumni from industry. 12 students of BCA VI semester, and 04 ITS-MCA alumni including Mr. Punit Nigam, MCA Batch 2004, Cognizant Technologies, Mr. Manish Sharma, MCA Batch 2005, Syscom Inc., Mr. Yash Mehdiratta, MCA Batch 2015, Tavant Technology, Ms. Manisha, MCA Batch 2017, Mercer Technologies, MS. Muskan Abbasi, MCA Batch 2018 were the expert panellists in this session.

The session started with the introduction & briefing about the objective of the session by Director-IT, Dr. Sunil Kr. Pandey he also said that this is the right opportunity for the students of BCA to get their doubts cleared regarding their career with expert panels of the session.

After that MCA-Chairperson, Prof. Puja Dhar started the session by asking the students to raise their queries and requested the panelists to share their experiences with the students. She also encouraged students to share their doubts and other issues that they would be having regarding their future & career options with the invited Alumni.

During the session many of the BCA VI Semester students interacted and asked lots of queries which were addressed by the Alumni. Alumni present, shared their own experiences and advised the students to stick on core fundamentals of the subjects, understand their strengths & interest and accordingly plan for their future.

Alumni Coordinator(MCA), Dr. Umang Singh, BCA- Final year Coordinator, Prof. Sumit Sharma was also present in the session. Overall the session was very interactive and students were happy to get answered about their doubts regarding choosing their career options.

Workshop on Angular JS by Web Club for MCA Students



Web Club @ Department of IT organized a workshop for students of MCA IV Semester on Angular JS on 6th April, 2019 in Lab-1 of the institute. Senior Architect, Ericson Mr. Yogendra Kumar Kaushik was the resource person of the workshop. Total 30 students attended the workshop. The workshop began with the overview of Angular JS. The workshop addressed some of the issues including what is

Angular JS?, need of Angular JS, dependencies for Angular JS, differentiation between Thick Line application and Thin Line Application, How to install NodeJS and Angular JS? and How to write the program of Angular JS? Mr. Kaushik also demonstrated an application developed using Angular JS. Students were also instructed to develop an application. Session was interactive and students enjoyed the session a lot.

SAMVAD-2019- A group discussion activity for MCA students

Department of IT always provide opportunities for overall development of our MCA students on various fronts whether Technical, Inter-Personal, social or Values & ethical dimension and to keep them abreast with latest developments & researches taking place in Industry to keep them aligned with industry expectations and requirements. Samvad-2019 was plan to improve their employability skills and easier career prospects for their bright future.





By keeping this view, 9th series of SAMVAD IX (Group Discussion Series) was planned during January – April 2019.

The objective of this series was to provide platform for improvement of communication, group discussion, critical thinking good content delivery and debating skills of each participating students.

Semifinal and Grand Finale round was organized on 12th April, 2019 with discussion on "Make in India" - will the idea make India a manufacturing hub? And Corruption is the root cause for Indian Economy slowdown".

At the end of the activity three winners were declared and awarded with certificate and memento . The winners of SAMVAD Mayank Goel had secured First position, Sokoya Adedolapo Abdulazeez secured Second position and Rahul Kumar Banti secured Third position. After prize distribution ceremony Director-IT, Dr. Sunil Kr. Pandey congratulated all the winners and wished all best luck for their future.



SAMAGRA-2019 an Inter-Institutional Techno-Cultural Fest







Department of I.T, ITS, Mohan Nagar, Ghaziabad organized "SAMAGRA-2019", an inter-institutional Techno-Cultural Fest on Saturday 20th April, 2019. The event received registration from 36 institutes in various activities and witnessed good participation from institutes of NCR and far off places. The event comprised of different activities under four categories including Technical, Cultural, Literary and Fine Arts. The event was full of fun, great display of talent, commitment, high class performances in all the categories.

SAMAGRA-2019 was inaugurated by lamp lightening before Goddess Sarasvati by Director-PR, I.T.S-The Education Group, Sh. Surinder Sood, Eminent Guests Shri. Arunendra Kumar, President - JBM Group & Former Chairman - Railway Board, Shri Anil Trigunayat (IFS)Ex. Ambassador of India to Jordan, Libya and Malta President and Hon. Advisor on Middle East & North Africa - FICCI/ BRICS Chamber of Commerce, Lt. Col. Prashant Mishra, Head (Telecom Products), The TATA Power Company Ltd., Strategic Engineering Division, Director-IT, Dr. Sunil Kr. Pandey, Vice Principal, UG-Campus, Prof. Nancy Sharma.

In the beginning Prof. Puja Dhar, Chairperson-MCA & one of the Coordinators of SAMAGRA-2019 welcomed all the guests and also briefed about the institute. Prof. Saurabh Saxena one of the SAMAGRA-2019 coordinators briefed about the whole event.



While addressing the gathering Director-PR, ITS-The Education Group, Sh. Surinder Sood appreciated the efforts by Event coordinators and students for the organizing this event where students from different institutes can showcase their talents. Director-IT, Dr. Sunil Kr. Pandey while delivering his welcome address wished best luck to all the participants and welcome them at I.T.S. He said that students should come forward and participate in such

events so that they can interact with the students of other institutes and can compete with them.

Guest of the inaugural session, Lt. Col. Prashant Mishra (Head Telecom Products), The TATA Power Company Ltd., Strategic Engineering Division shared his experience with all the participants. He also narrated short stories from Bagwhat Gita and said that a person should take a decision and then try hard to make it right decision.

Shri. Arunendra Kumar ,President - JBM Group & Former Chairman - Railway Board discussed about various upcoming IT technologies. He also shared his experience as a Railway Board Chairman. He advised students to take maximum participation in activities and don't bother about results, participation is more important than winning.



While addressing the participants Shri Anil Trigunayat (IFS), Ex. Ambassador of India to Jordan, Libya and Malta President said that I.T.S is doing a wonderful job in organizing such activities where students get chance to show his talent and opportunity to meet with other students from various institutes. He also advised participants to focus on their goal and be updated as per the need of industry.

While presenting the vote of thanks, Director-IT, Dr. Sunil Pandey said that such events are required for the overall development of a student and He also congratulated the Team SAMAGRA and also said that these events give platform to all the students to show their technical and non-technical skills.



After that the formal inaugural session, students of MCA 2nd&3rdyear welcomed all the dignitaries and participants by their foot-strapping Cultural activities including a beautiful Ganesh Vandana by students of MCA-2ndyear. Ms. Priya Singh, student of MCA-3rd year presented a solo dance performance. Harshita of MCA-2nd year sung a solo song. The inaugural session was appreciated and enjoyed by everyone present in the hall.

The events were categorized into Technical Events consisted of Programming in C, Programming in Java, Web Designing, IT-Quiz, Fastest Finger First, Lan Gaming, Blind Coding. In Cultural Events it consisted of Solo Singing, Solo Dance, Antakshri. In Literature there was extempore, crossword puzzle, nukkad Natak, Face Painting, Treasure Hunt, Sudoku, Rangoli, Mehandi, Human Snakes & Ladder.

At the end of the event Merit certificates, Medals and cash prize in some of the activities were distributed to all the winners of this event by Director-IT, Dr. Sunil Kr. Pandey, Vice Principal, UG-Campus, Prof. Nancy Sharma, Coordinators of SAMAGRA-2019, Prof. Saurabh Saxena, Prof. Puja Dhar, Prof. Smita Kansal and Prof. Varun Arora. Faculties of Department of PG-IT & UG-IT who had judged various events were also present in the Prize Distribution Ceremony. The whole event was full of Learning and enjoyment for the participants.

Faculty Participation in External Events

Date	Faculty	Events
2 nd April, 2019	Dr. Vidushi Singh and Prof. Saurabh Saxena	Attended the event "Taal Thok Ke" organized by ZEE NEWS at Noida Stadium, Noida
16 th April, 2019	Dr. Sunil Kr. Pandey, Director-IT	Invited as Speaker in "India STEM Summit- 2019" held at IIT, Delhi. The Summit was organized by All India Council for Robotic Automation (AICRA).
22 nd May, 2019	Dr. Umang	Delivered a Technical Talk on "Vehicular Adhoc Networks and FANET" in Two Weeks Faculty Development Programme on "Emerging Research Trends in Computer Science and IT" being organized by IEEE Delhi Section & IIPC (AICTE) of BVICAM, New Delhi, in collaboration with IEEE Computer Society (Delhi Section), CSI Delhi Chapter & ISTE Delhi Section at BVICAM, New Delhi
11 th to 15 th June 2019	Prof. Varun Arora and Prof. Saurabh Saxena	Attended an FDP on "Design and Analysis of Algorithm" at ABESIT ,Ghaziabad

Student Participation in External Events

Date	Student Name	Events
2 nd April, 2019	MCA-2 nd year students including Gaurav Kr., Nitin Prakash, Km. Deepti, Rahul Kr. Banti, Harshita, Nitish Kr., Shivani, Vivek Singh and MCA-1 st year students including Abhishek Singh, Mahesh, Naveen Kr., Rohit Kr. and Vikas Patel	Attended the event "Taal Thok Ke" organized by ZEE NEWS at Noida Stadium, Noida
5 th April, 2019	MCA-2 nd year students including Jyoti Yadav, Priya, Preeti, Mansi, Rahul Kumar, Nitin Kr.,Harshita, Megha, Satish and Anjali	Attended National Seminar on "Cyber Security" organized by Shyama Prasad Mukherji College for Women, University of Delhi
7 th April, 2019	Abhishek and Vikas, MCA 1 st Year Students	Participated in Techno-Cultural Fest "SENTIENCE" organized at NIT Delhi

Announcement and Contact Details

VIBRANCE is an E-Newsletter of Department of I.T, I.T.S, Ghaziabad. We look forward to the contribution from our students, alumni, faculty members and industry experts.

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